



IU International

MASTER (M.SC.)

DATA MANAGEMENT

Data management is going to become one of the top ten most sought-after skills in the near future. Experts at master level in particular are already in great demand today: As a data manager, you design secure systems that represent added value for your organisation. In the advanced programme in Data Management, you will learn the skills to lead demanding projects where you are required to process and store large amounts of data. You will acquire practical skills in data processing, data storage, data analysis and reporting. You can also specialise in fields like master data handling or cyber security.



Degree

Master of Science (M.Sc.)



Study start

60 ECTS: 1st September 2023*

120 ECTS: 1st March 2023*

Afterwards: Anytime



Study model

Online



Duration

60 ECTS: 12, 18 or 24 months

120 ECTS: 24, 36 or 48 months



Credits

60 or 120 ECTS



Fees

From €98 per month (120 ECTS)

*This programme is still in the process of accreditation and recognition. We expect approval from the relevant ministry by the programme's official start date. So far, all IU programmes have been accredited and approved successfully and on time.

Study Content (60 or 120 ECTS)

MODULE TITLE	SEMESTER	CREDITS (ECTS)
60 ECTS		
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Concepts in Data Management	1	5 ECTS
Database Concepts and Technologies		5 ECTS
Data Query Languages		5 ECTS
NoSQL Databases		5 ECTS
Seminar: Ethic & Societal Considerations in Data Management		5 ECTS
Advanced Research Methods		5 ECTS
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Seminar: Cloud Providers and Services	2	5 ECTS
Electives A		10 ECTS
Master Thesis & Colloquium		15 ECTS
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120 ECTS		
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Concepts in Data Management	1	5 ECTS
Database Concepts and Technologies		5 ECTS
Data Query Languages		5 ECTS
NoSQL Databases		5 ECTS
Seminar: Ethic & Societal Considerations in Data Management		5 ECTS
Advanced Research Methods		5 ECTS
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Data Engineering	2	5 ECTS
Big Data Technologies		5 ECTS
Data Warehousing, Pipelines and Orchestration		5 ECTS
Managing Data Projects		5 ECTS
Seminar: Cloud Providers and Services		5 ECTS
Project: Data Engineering		5 ECTS
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Programming with Python	3	5 ECTS
Project: Data Analysis in the Cloud		5 ECTS
Elective A		10 ECTS
Elective B		10 ECTS
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Master Thesis & Colloquium	4	15 ECTS

CHOOSE YOUR ELECTIVES

Choose one elective from

“Electives A” list:

- Business Analyst
- Data Manager for Internet of Things
- Data Miner
- Data Scientist
- Data Security & Protection Specialist
- Master Data Manager
- Process Management and Operational Application Systems
- Technical Project Lead

Choose one elective from

“Electives A” list:

- Business Analyst
- Data Manager for Internet of Things
- Data Miner
- Data Scientist
- Data Security & Protection Specialist
- Master Data Manager
- Process Management and Operational Application Systems
- Technical Project Lead

Choose one elective from

“Electives B” list:

- Business Analyst
- Data Manager for Internet of Things
- Data Miner
- Data Scientist
- Data Security & Protection Specialist
- Master Data Manager
- Process Management and Operational Application Systems
- Technical Project Lead

Choose one specialisation from each block.